

BIOSCIENCES UNDER THE MICROSCOPE: WHICH BIOSCIENCE IS FOR YOU?

Cutting-edge bioscience research helps to solve some of the biggest challenges we face today – from developing new cures for diseases and health conditions, to combating climate change and loss of biodiversity. Find out more about each specialist branch of bioscience.



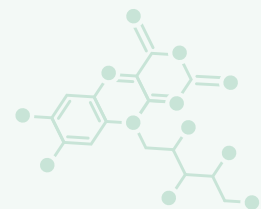
University of
Salford
MANCHESTER

CHEMICAL SCIENCES

BIOCHEMISTRY explores the chemical processes related to all living organisms.

Biochemists:

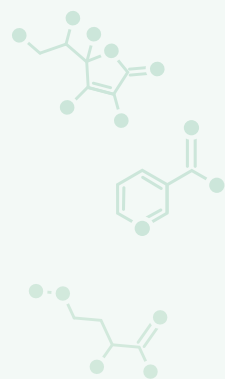
- Find new cures for infectious diseases and hereditary conditions
- Solve crimes with forensic investigation
- Work to reduce global poverty and hunger



PHARMACEUTICAL SCIENCE incorporates aspects of chemistry, biochemistry and toxicology.

Pharmaceutical scientists:

- Work to transform the future of healthcare
- Study the design and development of drugs
- Develop cures for new diseases and health problems
- Find innovative ways to manufacture and administer drugs



LABORATORY LIFE



Bioscience students at Salford spend lots of time in our Bodmer laboratories developing their practical skills through a variety of experiments.

These newly refurbished and well-equipped facilities, ensure that our bioscience students have the opportunity to use the latest, cutting-edge technologies.

ZOOLOGY & MARINE BIOLOGY

ZOOLOGY focuses on the physiology, evolution and behaviour of animals.

Zoologists:

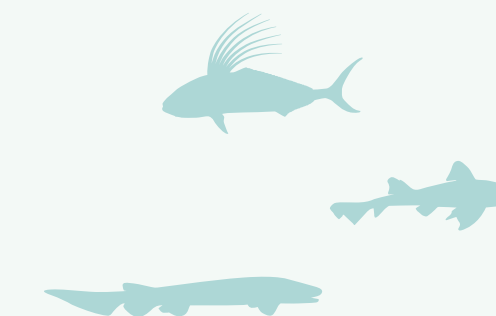
- Preserve natural habitats and protect endangered species
- Study animal communication and communities
- Research animal immune responses to infectious diseases
- Develop a better understanding of how all beings function and interact with the world around us



MARINE BIOLOGY looks at all aspects of marine organisms and ecosystems.

Marine biologists:

- Study the behaviour of marine life and its interaction with the environment
- Measure the impact of human activity on coral reefs and other marine organisms
- Track marine animals to implement conservation strategies
- Preserve ocean environments and ecosystems



BIOMEDICINE

HUMAN BIOLOGY AND INFECTIOUS DISEASES applies biological science to a research setting.

Human biologists and infectious disease specialists:

- Study human physiology, immunology, and infectious diseases
- Problem-solve a variety of health problems and infections
- Develop vaccine programmes and treatment plans at the population level
- Research the distribution, causes and risk-factors of epidemic and endemic diseases



BIOMEDICAL SCIENCE applies biological science to a clinical setting.

Biomedical scientists:

- Support the diagnosis and treatment of disease
- Identify micro-organisms and other factors causing diseases
- Monitor the effectiveness and side-effects of vaccines
- Study hereditary variations in genes and their effects



BIOLOGY

BIOLOGY encompasses the study of all living organisms.

Biologists study everything:

- From microorganisms for understanding diseases
- To whole ecosystems for mitigating environmental problems
- From nanotechnology for diagnosing cancer
- To global public health programmes for tackling pandemics



EXPLORE BIOSCIENCES AND SEE WHERE IT COULD TAKE YOU:
salford.ac.uk/explore-biosciences